

**Notice of Allowability**

Application No.

10/056,101

Examiner

Ralph A. Lewis

Applicant(s)

MAROTTA

Art Unit

3732

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amendment received (10/21/2005).
2. ☒ The allowed claim(s) is/are 12, 14-17, 19, 21-24, 30, 32-35, 38-41 and 77 (renumbered 1-20, respectively).
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some\* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☒ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☒ including changes required by the ~~Notice of Draftsperson's Patent Drawing Review (PTO-948)~~ attached PROPOSED DRAWINGS OF 1/18/2005 (FIGS 28-32) APPROVED - FORMAL DRAWING REQD.
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of \_\_\_\_\_  
Paper No./Mail Date \_\_\_\_\_

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08),  
Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_
7. ☒ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

### **Examiner's Amendment**

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The present Examiner's Amendment re-lists applicant's amendment of October 21, 2005 in the proper form for 37 CFR 1.121.

### **Listing of Claims.**

1-11. (canceled)

12. (Previously presented) An anchored anti-rotation analog post for preparing dental crown for insertion into the mouth of patient, said analog post comprising:

an elongated pin having opposite top and bottom ends;  
said pin having at least one anti-rotation anchoring projection extending discretely and radially from said pin near said bottom end thereof, wherein said at least one anchoring projection comprises a pair of opposing radially extending projections wherein said at least one pair of opposing radially extending anchoring projections comprises rigid loops.

13. (cancelled)

14. (Previously presented) An anchored anti-rotation analog post for preparing dental crown for insertion into the mouth of patient, said analog post comprising:

an elongated pin having opposite top and bottom ends;  
said pin having at least one anti-rotation anchoring projection extending discretely and radially from said pin near said bottom end thereof, wherein said at least one anchoring projection comprises a pair of opposing radially extending projections, wherein said at least one pair of opposing radially extending anchoring projections comprises rigid plates having a center slot, said center slot disposed in a matching slot disposed in the lower end of said pin, said lower-end pin slots for receiving and securing said rigid plates.

15. (Previously presented) An anchored anti-rotation analog post for preparing dental crown for insertion into the mouth of patient, said analog post comprising:  
an elongated pin having opposite top and bottom ends;  
said pin having at least one anti-rotation anchoring projection extending discretely and radially from said pin near said bottom end thereof, wherein said at least one anchoring projection comprises a pair of opposing radially extending projections, wherein said at least one pair of opposing radially extending anchoring projections comprises rigid serrated barbs.
16. (Original) The device of Claim 15 wherein said barbs are tapered to have a smaller radial extension toward the lower end of said pin.
17. (Original) The device of Claim 15 wherein said barbs are tapered to have a smaller radial extension toward the upper end of said pin.
18. (canceled)
19. (Previously presented) An anchored anti-rotation analog post for preparing dental crown for insertion into the mouth of patient, said analog post comprising:  
an elongated pin having opposite top and bottom ends;  
said pin having at least one anti-rotation anchoring projection extending discretely and radially from said pin near said bottom end thereof wherein said at least one anchoring projection comprises at least two pairs of opposing radially extending projections, wherein said at least one pair of opposing radially extending anchoring projections comprises rigid loops.
20. (canceled)

21. (Previously presented) An anchored anti-rotation analog post for preparing dental crown for insertion into the mouth of patient, said analog post comprising:

an elongated pin having opposite top and bottom ends;

said pin having at least one anti-rotation anchoring projection extending discretely and radially from said pin near said bottom end thereof wherein said at least one anchoring projection comprises at least two pairs of opposing radially extending projections, wherein said at least one pair of opposing radially extending anchoring projections comprises rigid plates having a center slot, said center slot disposed in a matching slot disposed in the lower end of said pin, said lower-end pin slots for receiving and securing said rigid plates.

22. (Previously presented) An anchored anti-rotation analog post for preparing dental crown for insertion into the mouth of patient, said analog post comprising:

an elongated pin having opposite top and bottom ends;

said pin having at least one anti-rotation anchoring projection extending discretely and radially from said pin near said bottom end thereof wherein said at least one anchoring projection comprises at least two pairs of opposing radially extending projections, wherein said at least one pair of opposing radially extending anchoring projections comprises rigid serrated barbs.

23. (Original) The device of Claim 22 wherein said barbs are tapered to have a smaller radial extension toward the lower end of said pin.

24. (Original) The device of Claim 22 wherein said barbs are tapered to have a smaller radial extension toward the upper end of said pin.

25-29. (canceled)

30. (Currently amended) A method of preparing dental crowns efficiently and accurately, comprising the steps of

- a. preparing an analog for a jaw implant supporting a dental crown mounting pin having at least one pair of radially extending anchoring extensions disposed near a bottom end of said pin, wherein said at least one pair of opposing radially extending anchoring projections comprises rigid loops;
- b. inserting bottom-end-down said prepared mounting pin into a dental crown casting mold wherein said pin comprises at least one pair of anchoring projections oppositely and radially extending from a bottom end of said pin;
- c. securing said prepared mounting pin temporarily in place within said casting mold;
- d. adding settable ~~plastic~~ plaster molding material to said casting mold so as to embed said bottom end of said pin by surrounding said bottom end of said pin with said ~~plastic~~ plaster molding material; and
- e. allowing said ~~plastic~~ plaster molding material to set and harden with said prepared pin embedded within said plaster molding material.

31. (canceled)

32. (Currently amended) A method of preparing dental crowns efficiently and accurately, comprising the steps of

- a. preparing an analog for a jaw implant for a dental crown mounting pin having at least one pair of radially extending anchoring extensions disposed near a bottom end of said pin wherein said pin comprises at least one pair of anchoring projections oppositely and radially extending from a bottom end of said pin, wherein said at least one pair of opposing radially extending anchoring projections comprises rigid plates having a center slot, said center slot disposed in a matching slot disposed in the lower end of said pin, said lower-end pin slots for receiving and securing said rigid plates;
- b. inserting bottom-end-down said prepared mounting pin into a dental crown casting mold;
- c. securing said prepared mounting pin temporarily in place within said casting mold;
- d. adding settable ~~plastic~~ plaster molding material to said casting mold so as to embed said bottom end of said pin by surrounding said bottom end of said pin with said ~~plastic~~ plaster molding material; and
- e. allowing said ~~plastic~~ plaster molding material to set and harden with said prepared pin embedded within said plaster molding material.

33. (Currently amended) A method of preparing dental crowns efficiently and accurately, comprising the steps of

- a. preparing an analog for a jaw implant supporting a dental crown mounting pin having at least one pair of radially extending anchoring extensions disposed near a bottom end of said pin wherein said pin comprises at least one pair of anchoring projections oppositely and radially extending from a bottom end of said pin, wherein said at least one pair of opposing radially extending anchoring projections comprises rigid serrated barbs;
- b. inserting bottom-end-down said prepared mounting pin into a dental crown casting mold;
- c. securing said prepared mounting pin temporarily in place within said casting mold;
- d. adding settable ~~plastic~~ plaster molding material to said casting mold so as to embed said bottom end of said pin by surrounding said bottom end of said pin with said ~~plastic~~ plaster molding material; and
- e. allowing said ~~plastic~~ plaster molding material to set and harden with said prepared pin embedded within said plaster molding material.

34. (Original) The method of Claim 33 wherein said barbs are tapered to have a smaller radial extension toward the lower end of said pin.

35. (Original) The method of Claim 33 wherein said barbs are tapered to have a smaller radial extension toward the upper end of said pin.

36. (canceled)

37. (canceled)

38. (Currently amended) A method of preparing dental crowns efficiently and accurately, comprising the steps of

- a. preparing an analog for a jaw implant supporting a dental crown mounting pin having at least one pair of radially extending anchoring extensions disposed near a bottom end of said pin, wherein said at least one pair of opposing radially extending anchoring projections comprises rigid plates having a center slot, said center slot disposed in a matching slot disposed in the lower end of said pin, said lower-end pin slots for receiving and securing said rigid plates, wherein said pin comprises at least two pairs of anchoring projections oppositely and radially extending from a bottom end of said pin and wherein said at least two pairs of said projections are spaced apart longitudinally on said pin near said bottom end thereof;
- b. inserting bottom-end-down said prepared mounting pin into a dental crown casting mold;
- c. securing said prepared mounting pin temporarily in place within said casting mold;
- d. adding settable ~~plastic~~ plaster plastic molding material to said casting mold so as to embed said bottom end of said pin by surrounding said bottom end of said pin with said ~~plastic~~ plaster molding material; and
- e. allowing said ~~plastic~~ plaster molding material to set and harden with said prepared pin embedded within said plaster molding material.

39. (Currently Amended) A method of preparing dental crowns efficiently and accurately, comprising the steps of

- a. preparing an analog for a jaw implant supporting a dental crown mounting pin having at least one pair of radially extending anchoring extensions disposed near a bottom end of said pin, wherein said at least one pair of opposing radially extending anchoring projections comprises rigid serrated barbs, wherein said pin comprises at least two pairs of anchoring projections oppositely and radially extending from a bottom end of said pin and wherein said at least two pairs of said projections are spaced apart longitudinally on said pin near said bottom end thereof;
- b. inserting bottom-end-down said prepared mounting pin into a dental crown casting mold;
- c. securing said prepared mounting pin temporarily in place within said casting mold;
- d. adding settable ~~plastic~~ plaster material to said casting mold so as to embed said bottom end of said pin by surrounding said bottom end of said pin with said ~~plastic~~ plaster molding material; and
- e. allowing said ~~plastic~~ plaster molding material to set and harden with said prepared pin embedded within said plaster molding material.

40. (Original) The method of Claim 39 wherein said barbs are tapered to have a smaller radial extension toward the lower end of said pin.

41. (Original) The method of Claim 39 wherein said barbs are tapered to have a smaller radial extension toward the upper end of said pin.

42. through 76. (Canceled).



77. (Currently Amended). A method of preparing dental crowns efficiently and accurately, comprising the steps of:

- a. preparing an analog for supporting a dental crown mounting pin having a plurality of oppositely and radially extending anchoring projections disposed near a bottom end of said pin, wherein said plurality of anchoring projections comprises rigid rods, wherein some rigid rods in said plurality are not parallel with other rigid rods in said plurality;
- b. inserting bottom-end-down said prepared mounting pin into a dental crown casting mold;
- c. securing said prepared mounting pin temporarily in place within said casting mold;
- d. adding settable plaster molding material to said casting mold so as to embed said bottom end of said pin by surrounding said bottom end of said pin with said plaster molding material; and
- e. allowing said plaster molding material to set and harden with said prepared pin embedded within said plaster molding material.

wherein said plurality comprises at least two pairs of anchoring projections spaced apart longitudinally on said pin near said bottom end thereof; and

wherein said at least one pair of opposing radially extending anchoring projections comprises rigid loops.

78. - 79. (Canceled).

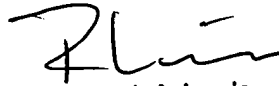
Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should

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you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Any inquiry concerning this communication should be directed to **Ralph Lewis** at telephone number **(571) 272-4712**. Fax (571) 273-8300. The examiner works a compressed work schedule and is unavailable every other Friday. The examiner's supervisor, Kevin Shaver, can be reached at (571) 272-4720.

R. Lewis  
December 12, 2005

  
Ralph A. Lewis  
Primary Examiner  
Au3732